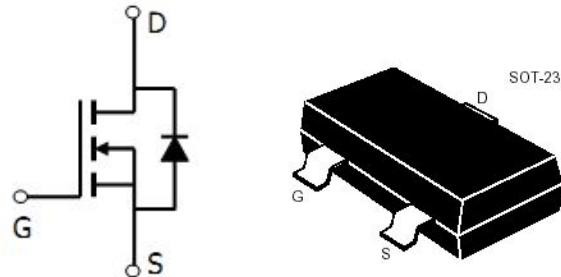


SOT-23 場效應晶體管(SOT-23 Field Effect Transistors)



N-Channel Enhancement-Mode MOS FETs

N 沟道增强型 MOS 场效应管

■MAXIMUM RATINGS 最大額定值

Characteristic 特性參數	Symbol 符號	Max 最大值	Unit 單位
Drain-Source Voltage 漏極-源極電壓	BV_{DSS}	30	V
Gate- Source Voltage 柵極-源極電壓	V_{GS}	± 20	V
Drain Current (continuous) 漏極電流-連續	I_D	3.1	A
Drain Current (pulsed) 漏極電流-脉沖	I_{DM}	10	A
Total Device Dissipation 總耗散功率 TA=25°C 環境溫度為 25°C	P_D	800	mW
Junction 結溫	T_J	150	°C
Storage Temperature 儲存溫度	T_{stg}	-55 to +150	°C

■DEVICE MARKING 打標

GM3008=W38



东莞市宇芯电子有限公司

DONGGUAN YUSHIN ELECTRONICS CO.,LTD

电话: 0769-89268116 传真: 0769-89268117

GM3008

■ELECTRICAL CHARACTERISTICS 電特性

(T_A=25°C unless otherwise noted 如無特殊說明，溫度為 25°C)

Characteristic 特性參數	Symbol 符號	Min 最小值	Typ 典型值	Max 最大值	Unit 單位
Drain-Source Breakdown Voltage 漏極-源極擊穿電壓(I _D =250uA, V _{GS} =0V)	BVDSS	30	—	—	V
Gate Threshold Voltage 柵極開啓電壓(I _D =250uA, V _{GS} = V _{DS})	V _{GS(th)}	0.8	—	2.0	V
Diode Forward Voltage Drop 內附二極管正向壓降(I _S = 1.5A, V _{GS} =0V)	V _{SD}	—	—	1.5	V
Zero Gate Voltage Drain Current 零柵壓漏極電流(V _{GS} =0V, V _{DS} = 24V)	I _{DSS}	—	—	1	uA
Gate Body Leakage 柵極漏電流(V _{GS} =±20V, V _{DS} =0V)	I _{GSS}	—	—	±100	nA
Static Drain-Source On-State Resistance 静态漏源導通電阻(I _D = 3.1A, V _{GS} = 10V)	R _{DS(ON)}	—	44	62	mΩ
Static Drain-Source On-State Resistance 静态漏源導通電阻(I _D = 2A, V _{GS} = 4.5V)	R _{DS(ON)}	—	57	77	mΩ
Static Drain-Source On-State Resistance 静态漏源導通電阻(I _D = 1A, V _{GS} =2.5V)	R _{DS(ON)}	—	180	235	mΩ
Input Capacitance 輸入電容 (V _{GS} =0V, V _{DS} = 15V,f=1MHz)	C _{ISS}	—	265	—	pF
Output Capacitance 輸出電容 (V _{GS} =0V, V _{DS} = 15V,f=1MHz)	C _{OSS}	—	38	—	pF
Turn-ON Time 开啓時間 (V _{DS} =15V, I _D = 1A, R _{GEN} =6Ω)	t _(on)	—	6	—	ns
Turn-OFF Time 關斷時間 (V _{DS} = 15V, I _D =1A, R _{GEN} =6Ω)	t _(off)	—	20	—	ns

Pulse Width≤300 μ s; Duty Cycle≤2.0%